



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

5 Post Office Square, Suite 100

Boston, MA 02109-3912

October 7, 2011

REDACTED

Records Center
Wells 8/17

Dear REDACTED

EPA has received and initially reviewed the first round of indoor air and sub-slab soil gas validated data collected from the building on your property. Our preliminary review focused only on contaminants in indoor air that may be entering your building via vapor intrusion. Our preliminary review of the first round of validated data collected in March 2011 indicates that vapor intrusion does not pose a health threat inside the building. It is important to note, however, that EPA's final review will be based on evaluation of the validated data from two rounds of indoor air sampling, one round conducted during heating conditions in March, as has already been done, and one round conducted during non-heating conditions in June 2011, as well as groundwater and sub-slab data.

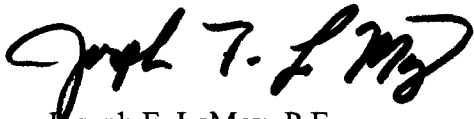
Vapor intrusion is the movement of volatile contaminants from groundwater into a structure. Our preliminary review does not consider those contaminants that may be present in indoor air from unrelated sources such as those released from cleaning products, building materials, personal care products or from the storage of solvents and fuels.

Please find attached a figure illustrating the locations where the first round of indoor air samples were collected within the building on your property in March 2011, and a table summarizing the first round of validated data collected. Please note that following descriptions apply to the attached table: indoor air samples are denoted as "IA"; sub-slab soil gas samples are denoted as "SS"; and outdoor air or atmospheric air sample is denoted as either "OA" or "AA".

EPA anticipates completing its comprehensive evaluation of both rounds of validated data and providing you with further information regarding the overall results in November 2011.

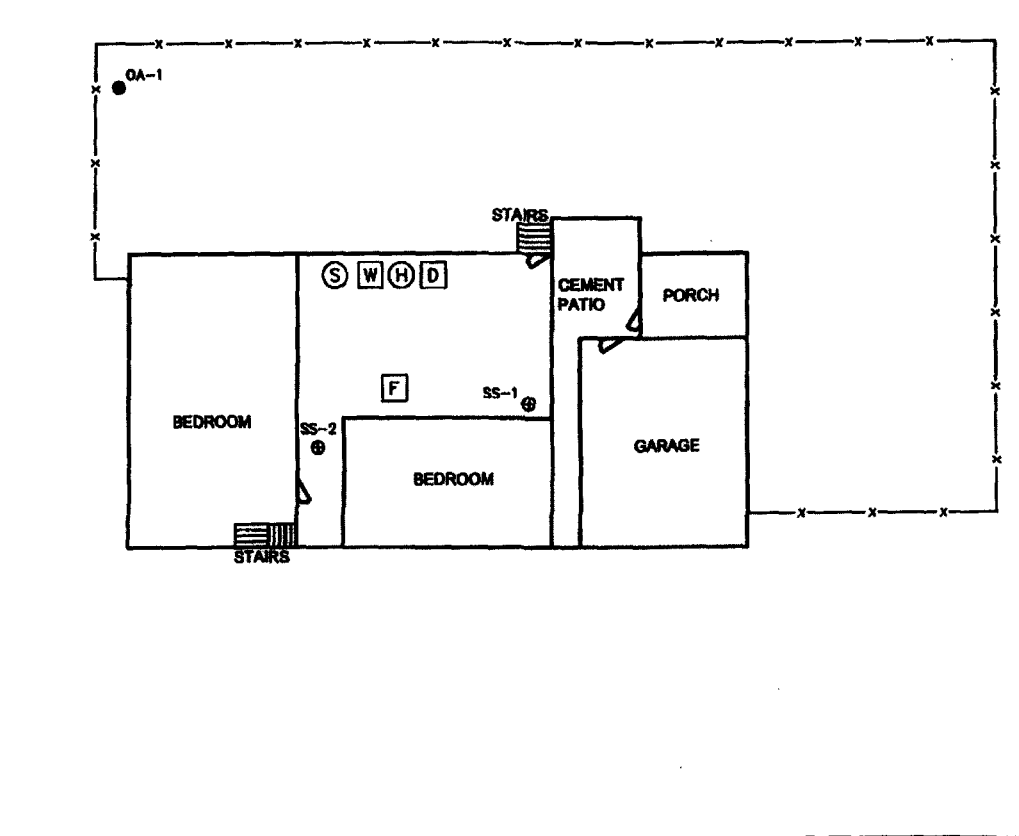
If you have any questions regarding this letter, or would like to meet and discuss the first round results, please contact me at (617) 918-1323.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph F. LeMay". The signature is stylized with a large, looped "J" and a prominent "L".

Joseph F. LeMay, P.E.

Office of Site Remediation and Restoration



LEGEND:

- ⊕ SUB-SLAB AND INDOOR AIR SAMPLING LOCATIONS
- OUTDOOR AMBIENT AIR SAMPLING LOCATION
- x— FENCE
- [F] FURNACE
- [W] WASHER
- [D] DRYER
- (H) HOT WATER HEATER
- (S) SEWER

NOTE:

1. ALL LOCATIONS ARE APPROXIMATE.



UNIFIRST CORPORATION WOOLBURN, MA	
INDOOR AIR QUALITY AND VAPOR INTRUSION ASSESSMENT: REPORT OF RESULTS	
RESIDENCE SAMPLE LOCATIONS MARCH 2011	
ARCADIS	FIGURE 1

Table 1. Indoor and Ambient Air Sampling Results - Residence

Sample Name: Date Collected:	Units	AA-1 03/11/11	IA-1 03/11/11	IA-2 03/11/11
Volatile Organics				
1,1,1-Trichloroethane	µg/m ³	0.109 U	0.109 U	0.109 U
1,1,2-Trichloroethane	µg/m ³	0.109 U	0.109 U	0.109 U
1,1-Dichloroethane	µg/m ³	0.0810 U	0.0810 U	0.0810 U
1,1-Dichloroethene	µg/m ³	0.0790 U	0.0790 U	0.0790 U
1,2,4-Trimethylbenzene	µg/m ³	0.0980 U	3.88	3.32
1,2-Dibromoethane	µg/m ³	0.154 U	0.154 U	0.154 U
1,2-Dichloroethane	µg/m ³	0.0810 U	0.0810 U	0.0810 U
1,2-Dichloropropane	µg/m ³	0.0920 U	0.0920 U	0.0920 U
1,3-Butadiene	µg/m ³	0.0440	0.351	0.292
1,3-Dichlorobenzene	µg/m ³	0.120 U	0.120 U	0.120 U
1,4-Dichlorobenzene	µg/m ³	0.120 U	0.120 U	0.120 U
Benzene	µg/m ³	0.405	5.93	5.31
Bromodichloromethane	µg/m ³	0.134 U	0.134 U	0.134 U
Bromoform	µg/m ³	0.206 U	0.206 U	0.206 U
Carbon Tetrachloride	µg/m ³	0.591	0.534	0.490
Chlorobenzene	µg/m ³	0.0920 U	0.0920 U	0.0920 U
Chloroform	µg/m ³	0.0980 U	0.507	0.346
cis-1,2-Dichloroethene	µg/m ³	0.0790 U	0.0790 U	0.0790 U
Ethylbenzene	µg/m ³	0.0870 U	2.50	2.40
Isopropylbenzene	µg/m ³	2.46 U	2.46 U	2.46 U
Methyl tert-butyl ether	µg/m ³	0.0720 U	0.0720 U	0.0720 U
Methylene Chloride	µg/m ³	1.74 U	1.74 U	2.50
Naphthalene	µg/m ³	0.262 UJ	0.890 J	0.498 J
Tetrachloroethene	µg/m ³	0.136 U	0.542	0.603
Toluene	µg/m ³	0.618	24.8	22.4
trans-1,2-Dichloroethene	µg/m ³	0.0790 U	0.0790 U	0.0790 U
trans-1,3-Dichloropropene	µg/m ³	0.0910 U	0.0910 U	0.0910 U
Trichloroethene	µg/m ³	0.107 U	0.107 U	0.107 U
Vinyl Chloride	µg/m ³	0.0510 U	0.0510 U	0.0510 U
Xylenes (total)	µg/m ³	0.260 U	14.4	13.4

Notes:

U - Constituent not detected

J - Indicates an estimated value

µg/m³ - micrograms per cubic meter



Table 2. Sub-Slab Soil Vapor Sampling Results - Residence

Sample Name: Date Collected:	Units	SS-1 03/11/11	SS-2 03/11/11
Volatile Organics			
1,1,1-Trichloroethane	µg/m ³	0.801	0.491
1,1,2-Trichloroethane	µg/m ³	0.109 U	0.109 U
1,1-Dichloroethane	µg/m ³	0.0810 U	0.0810 U
1,1-Dichloroethene	µg/m ³	0.0790 U	0.0790 U
1,2,4-Trimethylbenzene	µg/m ³	0.0980 U	0.319
1,2-Dibromoethane	µg/m ³	0.154 U	0.154 U
1,2-Dichloroethane	µg/m ³	0.0810 U	0.0810 U
1,2-Dichloropropane	µg/m ³	0.0920 U	0.0920 U
1,3-Butadiene	µg/m ³	0.0440 U	0.0690
1,3-Dichlorobenzene	µg/m ³	0.120 U	0.120 U
1,4-Dichlorobenzene	µg/m ³	0.120 U	0.120 U
Benzene	µg/m ³	0.223 U	1.34
Bromodichloromethane	µg/m ³	0.134 U	0.134 U
Bromoform	µg/m ³	0.206 U	0.206 U
Carbon Tetrachloride	µg/m ³	0.490	0.553
Chlorobenzene	µg/m ³	0.0920 U	0.0920 U
Chloroform	µg/m ³	0.0980 U	0.322
cis-1,2-Dichloroethene	µg/m ³	0.0790 U	0.0790 U
Ethylbenzene	µg/m ³	0.0870 U	0.568
Isopropylbenzene	µg/m ³	2.46 U	2.46 U
Methyl tert-butyl ether	µg/m ³	0.0720 U	0.0720 U
Methylene Chloride	µg/m ³	1.74 U	1.74 U
Naphthalene	µg/m ³	0.539 J	0.262 UJ
Tetrachloroethene	µg/m ³	318	178
Toluene	µg/m ³	0.188 U	3.95
trans-1,2-Dichloroethene	µg/m ³	0.0790 U	0.0790 U
trans-1,3-Dichloropropene	µg/m ³	0.0910 U	0.0910 U
Trichloroethene	µg/m ³	0.107 U	0.107 U
Vinyl Chloride	µg/m ³	0.0510 U	0.0510 U
Xylenes (total)	µg/m ³	0.273	1.81

Notes:

U - Constituent not detected

µg/m³ - micrograms per cubic meter